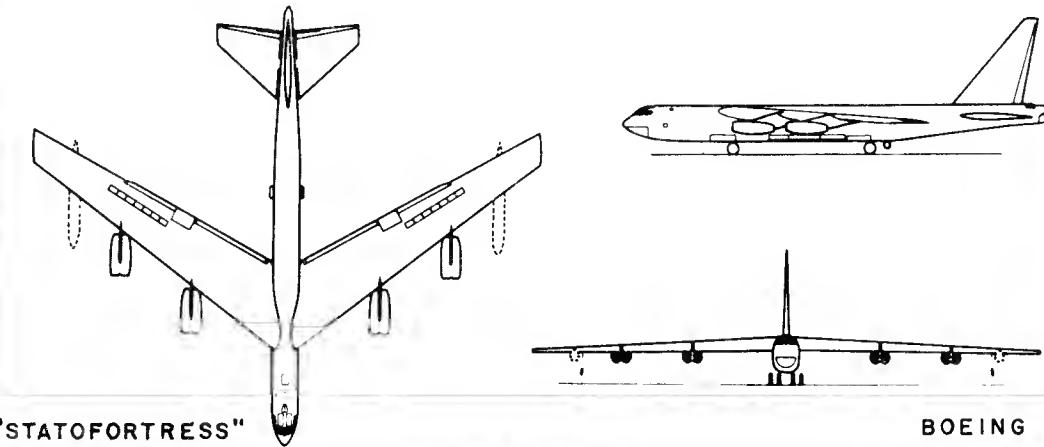


# Characteristics Summary

**BOMBER . . . . . B-52 E**

Wing Area . . . . . 4000 sq ft Length . . . . . 156.5 ft

Span . . . . . 185.0 ft Height (overall) . . . . . 48.3 ft  
Height (fin folded) . . . . . 21.5 ft

AVAILABILITY			PROCUREMENT		
Number available			Number to be delivered in fiscal years		
ACTIVE	RESERVE	TOTAL			

**STATUS**

1. Design initiated: May 53
2. First flight: Nov 57
3. First delivery to SAC: Dec 57

4. The B-52E airplane is similar to the B-52D except for change in bombing-navigational system. The B-52E utilizes the AN/ASB-4A system.

Navy Equivalent: None

Mfr's Model: 464-259

**POWER PLANT**(8) J57-P-19W or 29WA  
Pratt & Whitney**ENGINE RATINGS**

S.L.S LB - \*\*RPM -MIN  
Max: \*12,100-6450/9900-5  
Mil: 10,500-6150/9900-30  
Nor: 9000-5900/9650-  
Cont

\* Wet

\*\* First figure represents low pressure spool; second figure represents high pressure spool.

**FEATURES**

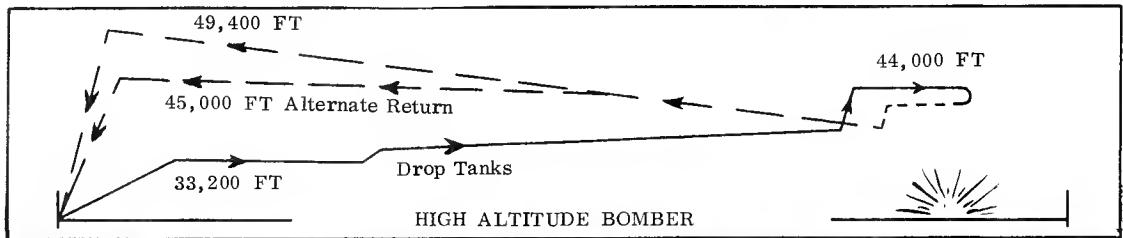
Crew . . . . . 6  
Cabin pressurization, heating and cooling  
Thermal Anti-icing  
Braking parachute  
Quadricycle landing gear  
Aerodynamic spoilers (air-brake)  
Strike camera station  
AN/ASB-4 bombing-navig system  
MD-9 fire control system  
Folding fin  
Pneumatic driven alternator & hydraulic packs  
Liquid oxygen system  
Crosswind landing gear

Max fuel cap: 41,553 gal

**ARMAMENT**

Turret . . . . . 1  
Guns . . . 4 x .50 cal (M-3)  
Ammunition (tot) . . 2400 rds  
BOMBS:  
Nr Class (lb)  
New Series  
27 (Family of Clusters) . 1000  
Special Weapons  
MK-28 . . . . . MK-53  
MK-41 . . . . . MK-57

Note: Structural provisions for 50,000 lb bomb; airplane will carry 4 ADM-20 and 2 AGM-28 missiles

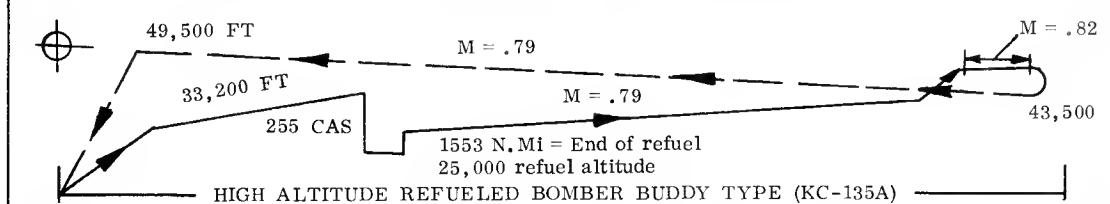
*Characteristics Summary Basic Mission* ..... B-52E

PERFORMANCE		
COMBAT RADIUS	FERRY RANGE	SPEED
3027 naut. mi with 10,000 lb payload at 453 knots avg. in 13.45 hours	6410 naut. mi with 41,024 gal fuel at 453 knots avg. in 14.17 hours at 450,000 lb T.O. wt.	COMBAT 496 knots at 44,000 ft alt, max power MAX (c) 551 knots at 20,200 ft alt, max power BASIC 520 knots at 35,000 ft alt, max power
CLIMB	CLIMBING	TAKE-OFF
2225 fpm sea level, take-off weight normal power	37,550 ft 100 fpm, combat weight normal power	ground run 8000 ft no assist
5125 fpm sea level, combat weight military power	45,800 ft 500 fpm, combat weight military power	over 50 ft height 10,300 ft no assist
LOAD	WEIGHTS	STALLING SPEED
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal	Empty..... 174,782 lb Combat.... 292,460 lb (b) Take-off 450,000 lb limited by structure	147 knots, initial buffet power-off, landing configuration, take-off weight
TIME TO CLIMB		
		21.5 min to cruise altitude of 33,200 ft

## NOTES

1. Performance Basis:
  - (a) Data Source: Flight tests
  - (b) Excludes 2500 lb water
  - (c) Limited by structure
  - (d) O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. weight.
2. Performance Reference: Boeing Document D-1513B "Substantiating Data Report - Models B-52B (-19W engines), B-52C and B-52D Standart Aircraft Characteristics Charts", 14 May 1957.
3. Revision Basis: To show change in Armament block, Page 1.

June 68.

*Characteristics Summary Basic Mission* ..... B-52E**S U P P L E M E N T A L****PERFORMANCE**

<b>COMBAT RADIUS</b>	<b>FERRY RANGE</b>	<b>S P E E D</b>
3925 naut. mi with 10,000 lb payload at 453 knots avg. in 17.43 hours.	--- naut. mi with --- gal fuel at --- knots avg. in --- hours at --- lb T.O. wt.	COMBAT 486 knots at 43,500 ft alt, mil power (c) MAX 551 knots at 20,200 ft alt, max power BASIC 518 knots at 35,000 ft alt, mil power
<b>CLIMB</b>	<b>CLIMBING</b>	<b>TAKE-OFF</b>
2225 fpm sea level, take-off weight normal power	37550 ft 100 fpm, take-off weight normal power	ground run 8000 ft no assist
4575 fpm sea level, combat weight military power	43,900 ft 500 fpm, combat weight military power	over 50 ft height 10,300 ft no assist
<b>LOAD</b>	<b>WEIGHTS</b>	<b>STALLING SPEED</b>
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal  Fuel: protected 39,288 gal droppable 61.6 % external 14.4 % 14.4 %	Empty..... 174,782 lb Combat ... 329,860 lb (b) Take-off 450,000 lb  limited by structure	147 Knots, initial buffet power-off, landing configuration, take-off weight
		<b>TIME TO CLIMB</b>
		21.5 min to cruise altitude of 33,200 ft.

**N O T E S**

1. Performance Basis:
  - (a) Data Source: Flight Tests
  - (b) Excludes 2500 lb water
  - (c) Limited by structure
  - (d) O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. Weight.
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June 68.